

IN THE CLAIMS:

1. (Currently Amended) A laser light source comprising:
plural a plurality of semiconductor lasers for emitting a plurality of laser beams; and
a waveguide for transmitting light propagating the plurality of laser beams;
wherein ~~plural~~ the plurality of laser beams ~~which are emitted from the plural~~
~~semiconductor lasers and enter the waveguide propagate in the waveguide to be~~ emitted to the
~~outside from one end face of the waveguide,~~
and the plurality of semiconductor lasers are arranged in a direction where spread angles
of the laser beams are relatively small.

2. (Cancelled)

3. (Currently Amended) ~~A~~ The laser light source as defined in Claim 1 wherein a length L
from the ~~light emission~~ end face of the waveguide to ~~the~~ a nearest light incident position satisfies
a relational expression (1) as follows:

$$L \geq W / \tan(\sin^{-1}(\sin(\theta/2)/n))$$

- wherein W is ~~the~~ a width of the waveguide, n is ~~the~~ a refractive index in the waveguide,
and θ is ~~the~~ a minimum beam spread angle of the semiconductor laser.

4. (Currently Amended) ~~A-~~The laser light source as defined in Claim 1 wherein said waveguide ~~has~~comprises a step difference portion at which the cross-section area of the waveguide varies in ~~the~~a light propagating direction, and said ~~plural~~plurality of semiconductor lasers are disposed on the step difference portion.
5. (Currently Amended) ~~A-~~The laser light source as defined in Claim 4 wherein said waveguide ~~has~~comprises a ~~plural~~plurality of step difference portions.
6. (Currently Amended) ~~A-~~The laser light source as defined in Claim 1 wherein the semiconductor lasers which are arranged in one line along the direction where the spread angles of light beams emitted from the semiconductor lasers are relatively small are shifted from the semiconductor lasers in the other line in ~~the~~a light emission direction.
7. (Currently Amended) ~~A-~~The laser light source as defined in Claim 6 wherein said waveguide ~~has~~comprises step portions at which the cross-section area of the waveguide varies stepwise in ~~the~~a light propagating direction, and said ~~plural~~plurality of semiconductor lasers are disposed on the respective step portions.
8. (Currently Amended) ~~A-~~The laser light source as defined in Claim 1 wherein said ~~plural~~plurality of semiconductor lasers include at least two semiconductor lasers having different oscillation wavelengths, and

a maximum oscillation wavelength difference A (A: actual number) of the semiconductor lasers having different oscillation wavelengths satisfies $A \geq 1\text{nm}$.

9. (Currently Amended) ~~A-~~The laser light source as defined in Claim 8 wherein said ~~plural~~plurality of semiconductor lasers include at least three semiconductor lasers having different oscillation wavelengths, and ~~the~~ intervals of adjacent oscillation wavelengths are substantially constant.
10. (Currently Amended) ~~A-~~The laser light source as defined in Claim 8 wherein said maximum oscillation wavelength difference A satisfies $1\text{nm} \leq A \leq 30\text{nm}$.
11. (Currently Amended) ~~A-~~The laser light source as defined in Claim 1 wherein ~~the~~ output light intensities of the ~~respective~~ semiconductor lasers are approximately uniform.
12. (Currently Amended) ~~A-~~The laser light source as defined in Claim 1 wherein said ~~plural~~plurality of semiconductor lasers are multistriple lasers.
13. (Currently Amended) ~~A-~~The laser light source as defined in Claim 1 wherein said ~~plural~~plurality of semiconductor lasers are multistack lasers.
14. (Currently Amended) A laser light source as defined in Claim 1 wherein said ~~plural~~plurality of semiconductor lasers are arranged ~~so as to~~ constitute at least one laser array.

15. (Currently Amended) A ~~The~~ laser light source as defined in Claim 1 wherein said waveguide ~~has a~~ is hollow structure, and a liquid is sealed in the ~~hollow part~~ waveguide.

16. (Currently Amended) A ~~The~~ laser light source as defined in Claim 15 further ~~including~~ comprising:

a cooling mechanism connected to the waveguide, ~~the cooling mechanism which is connected to the waveguide, and circulates~~ circulating the liquid sealed in the hollow part of the waveguide and cooling the plurality of semiconductor lasers, ~~and~~
~~—said plural semiconductor lasers being cooled by the cooling mechanism.~~

17. (Currently Amended) A two-dimensional image forming device including plural semiconductor lasers, a spatial light modulator for modulating light outputted from a laser light source, and a lighting optical system for illuminating the output light from the laser source to the spatial light modulator, wherein

said laser light source comprises:

~~plural~~ a plurality of semiconductor lasers for emitting a plurality of laser beams; and

a waveguide for ~~transmitting light~~ propagating the plurality of laser beams;

wherein ~~plural~~ the plurality of laser beams ~~which are emitted from the plural semiconductor lasers and enter the waveguide propagate in the waveguide to be~~ is emitted to the outside from one end face of the waveguide.

wherein the plurality of semiconductor lasers are arranged in a direction where spread angles of the laser beams are relatively small.

18. (Currently Amended) ~~A-~~The two-dimensional image forming device as defined in Claim 17 further including a projection optical system for projecting output light from the spatial light modulator.